## **SAW Duplexers**



SAW Duplexer for Cellular Telephone which incorporates highly-precise interdigited electrodes achieves low insertion loss, high selectivity. And unique electrode material achieves high power durability thus the duplexer has wide applications to antenna duplexer circuits for cellular telephones.

#### Features

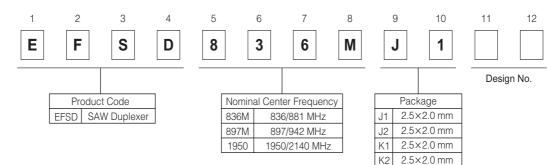
- Stable against severe conditions of vibration and shock thanks to the unique monolithic construction of the filter
- Low insertion loss and excellent selectivity
- Contributes to circuit simplification and adjustment free
- Saves the hight on PC board **RoHS** compliant

Explanation of Part Numbers



#### Recommended Applications

• The antenna duplexer for cellular telephone



# Panasonic

#### Ratings and Characteristics

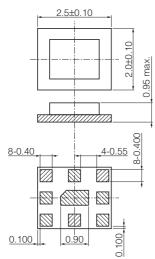
Part No.	System	Nominal Center Frequency	Input/Output Impedance	Size	Package	
EFSD836MJ1	CDMA	836.5/881.5 MHz	UB-UB(50 Ω-50 Ω)	2.5×2.0 mm	I	
EFSD836MJ2□□	UMTS Band V	030.3/001.3 IVITIZ	00-00(30 12-30 12)	2.582.0 11111	J	
EFSD1950J1	UMTS Band I	1950/2140 MHz		2.5×2.0 mm	I	
EFSD1950J2		1950/2140 IVIHZ	UB-UB(50 $\Omega$ -50 $\Omega$ )	2.5×2.0 mm	J	
EFSD897MK1	UMTS Band VIII	907 5/042 5 MH-		2.5×2.0 mm	К	
EFSD897MK2		897.5/942.5 MHz	UB-UB(50 Ω-50 Ω)	2.5x2.0 11111	ĸ	

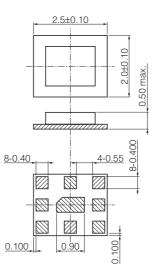
\* UB : Unbalance, B : Balance

#### Dimensions in mm (not to scale)

J type

K type



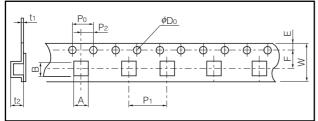


### Packaging Methods (Taping)

Minimum Quantity / Packing Unit

Part Number	Packaging Style	Packaging Style Quantity		Carton Dimensions in mm (LxWxH)	
EFSD	Embossed Carrier Taping	2000 pcs./reel	10000 pcs.	230×220×73	
EFSDOOOKOOO	Embossed Carrier Taping	2000 pcs./reel	10000 pcs.	230×220×73	

#### • Embossed Carrier Taping

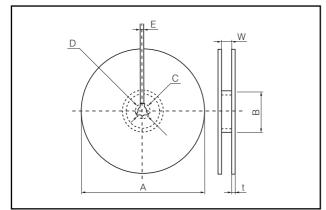


#### J type

Symbol	W	F	E	P <sub>0</sub>	P <sub>1</sub>	P <sub>2</sub>	Do	t <sub>1</sub>	t <sub>2</sub>	А	В
Dim. (mm)	8.0±0.2	$3.50 \pm 0.05$	1.75±0.10	4.0±0.1	4.0±0.1	2.00±0.05	φ1.50 <sup>+0.1</sup>	0.25±0.05	1.10±0.10	2.3±0.1	2.8±0.1
K type											
0 1 1	144	_	_	-	-	-	-				-

Symbol	W	F	E	Po	P <sub>1</sub>	P <sub>2</sub>	Do	t <sub>1</sub>	t <sub>2</sub>	A	В
Dim. (mm) 8.	.0±0.2	3.50±0.05	1.75±0.10	4.0±0.1	4.0±0.1	2.00±0.05	φ1.50 <sup>+0.1</sup>	0.25±0.05	0.70±0.10	2.3±0.1	2.8±0.1

#### • Taping Reel



#### J, K type

Symbol	A	В	С	D	E	W	t
Dim. (mm)	ø178±3	<i>ø</i> 60.0±1.0	ø13.0±0.5	ø21.0±1.0	2.0±0.5	9.0±1.0	max. 3